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William F. Caton **Acting Secretary** Federal Communications Commission 1919 M Street, N.W., Room 222 Washington, D.C. 20554

JAN 1 9 1995

FEDERAL COMMUNICATIONS COMMISSION OFFICE OF SECRETARY

Re: ET Docket No. 93-7

Dear Mr. Caton:

On January 19, 1995, representatives of Compaq Computer Corporation met with Merrill Spiegel of Chairman Hundt's office to discuss the Cable Compatibility proceeding, ET Docket No. 93-7. Compaq was represented by Joseph Tasker, Jr., Director, Federal Regulatory Affairs, Jonathan Jacob Nadler of this firm, and the undersigned. The issues discussed at this meeting have been previously placed in the public record in Compaq's pleadings and the attached handout was distributed.

The original and one copy of this letter is enclosed for filing in accordance with Section 1.1206(a) of the Commission's rules. If you have any questions, please contact the undersigned.

Sincerely,

Jeffrey A. Campbell

**Enclosure** 

Merrill Spiegel cc:

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#### PRESENTATION OF COMPAQ COMPUTER CORPORATION

ET DOCKET NO. 93-7

RECEIVED THE COMMISSION SHOULD REQUIR THE FULL UNBUNDLING OF THE CABLE SET-BACK BOX

January 19, 1995

- ١. Compag Computer Corporation: A Market Innovator
  - Compag is one of the largest manufacturer of personal computers and personal computer systems in the world today. With 1993 after-tax profits of \$462 million, Compag is now the most profitable computer company in the United States.
  - Compag's historic focus has been in the PC market, where its innovative and affordable products have made it a recognized leader. Today, Compag's reach extends from home computers to business PCs, from mobile computing to PC networks.
  - Looking to the future, Compag intends to be a major participant in the information technology industry by becoming the leading provider of "platforms" -- ranging from consumer PCs to enterprise client/server systems -- that provide network access, information processing, and storage capability. Compag also anticipates serving its customers by forging alliances with providers of information transport "conduits" and information content.

Presentation of Compaq Computer Corporation Page 2

#### II. Compaq's Vision: The Emerging National Information Infrastructure

- In order to promote the growth of the National Information Infrastructure, information conduits -- including cable systems and telephone networks -- will have to become more open and interoperable. Ultimately these disparate services will form an interoperable federation of architectures, interfaces, and protocols that will constitute the backbone the NII.
- The personal computer will play a pivotal role in the NII.
  - -- Over time, more intelligence will move from the conduits to the platforms.
  - -- The PC will play a key role in this transformation; it is a multi-functional platform that is well suited to a wide range of business, educational, and entertainment uses.
    - \* The first step will be the merger of the PC and the television. Indeed, many PCs currently are equipped with "tuner boards" that enable the PC to act as TV monitor.
    - \* PC-TV is just the beginning. Ultimately, the PC will integrate a wide range of telecommunications, information processing, and display functions.
  - -- At the same time, competition and technological advances will force prices down. As a result, by the year 2000 as many as 75 percent of all households may have some type of PC.

Presentation of Compaq Computer Corporation Page 3

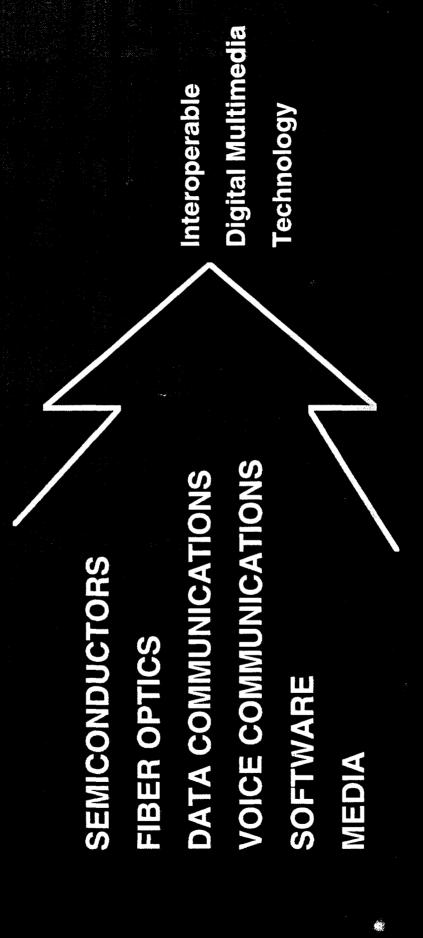
#### III. The Cable Compatibility Proceeding is an Important Step in the Process of Fostering the Development of the NII

- In order for the NII to develop, functionality must be allowed to migrate from non-competitive conduits (including cable systems) into competitively provided equipment.
- Allowing cable systems to bundle security and non-security functions in the Decoder Module would be inconsistent with this goal.
  - Consumers currently are obligated to obtain equipment that provides the security function from the cable systems.
  - -- Allowing cable systems to bundle this functionality with non-security functions would foreclose competition from independent manufacturers.
  - -- The ultimate result would be to allow cable system operators to bundle non-security functionality into their networks.
- There are several acceptable ways to unbundle the Decoder Module from non-security-related in-home equipment.
  - -- The simplest solution is to require the physical separation of the Decoder Module from other in-home cable equipment providing non-security functions.
  - -- An alternative solution is to allow cable systems to bundle security-related and non-security-related functions into a single box, <u>provided</u> the cable system is required to make available a "security only" Decoder Module.
  - -- A third possibility is to require cable systems to license their security technology to independent equipment manufacturers, thereby allowing both cable systems and independent manufacturers to offer a security/non-security Decoder Module.

Presentation of Compaq Computer Corporation Page 4

- Resolution of this issue will set an important precedent.
  - In the short term, unbundling security and non-security functions will allow functionality to migrate from the monopoly cable networks to competitively provided setback boxes, televisions, and VCRs. This will become increasingly important as such functionality becomes more advanced.
  - -- Such unbundling also is a necessary precondition to allowing functionality to migrate from the cable conduits to PCs or other "smart platforms" in response to technical developments and market demand.
  - -- In addition, Unbundling the set-back box is an important step towards the adoption of a comprehensive "Part 68 for Cable," which will ensure the ability of end-users to connect competitively provided equipment to the cable network.
  - Finally, the <u>Cable Compatibility</u> proceeding is closely related to the <u>Video Dialtone</u> proceeding. The Commission's Unbundling Rule, 47 C.F.R. § 64.702(e), requires carriers providing video dialtone service to unbundle the provision of customer premises equipment (including the set-top box) from their basic transport service. The Commission should adopt consistent rules in both proceedings, thereby allowing consumers to have the full benefit of competition in the market for in-home equipment used in conjunction with multi-channel video programming.

## Information Industries Converging



# New Information Technology Industry Emerging

#### Solution Spectrum

Content (Data, Voice and Video)

Conventional TV Programs Home Shopping Movies Interactive Games **CD ROM Magazines** Remote Classrooms Corporate Libraries Training

Cable POTS Copper Cellular NOSI PCS Switched Digital

(Infrastructure and

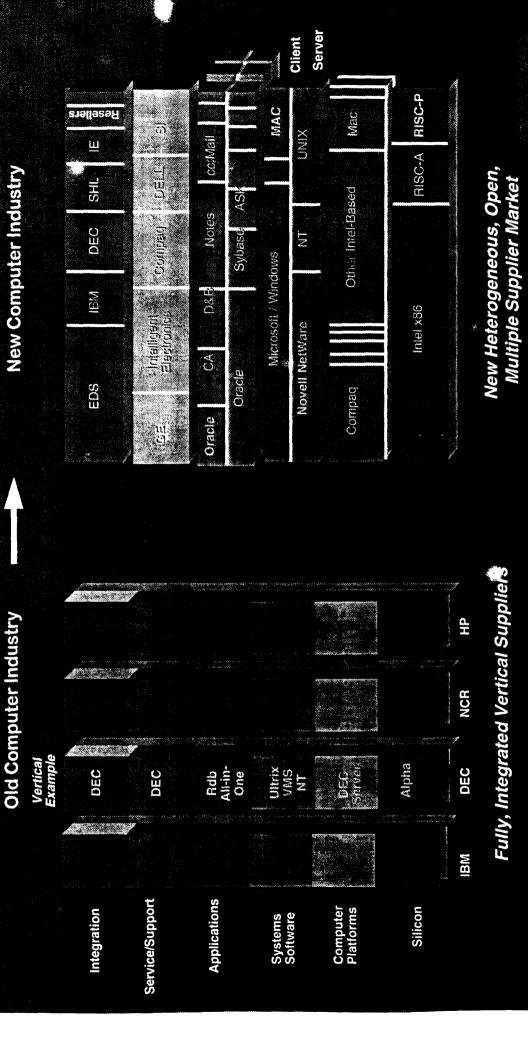
Conduit

Services)

Comm FEP PBX MUX F (Hardware and Systems Computing Main Mid Netw frame range Serv

PCTV/ Smart phone Elec Books Set-top box Modems Pagers Mobile Comp Laptops Notebooks Subnotebooks NICS Network PCs & Servers Wkstations FEP PBX MUX Routers HUBs Main Mid frame range

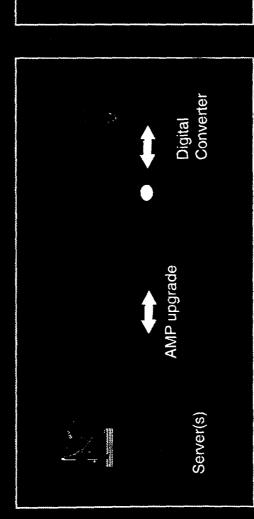
# Computer Industry Business Model Changing



# Investments to Provide Broadband to the Home

#### **Current Trials**

Multiplex Networks \$500/Household



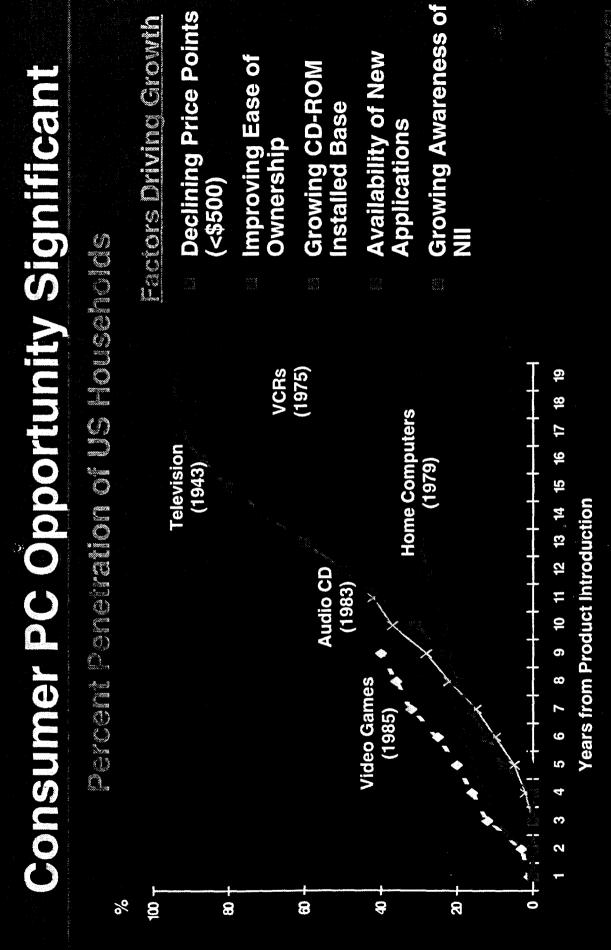
- 200 To 500 Channels Shared Across The Entire Cable System
- \* 1 Mb/S Compressed Channel
- \* Impulse Response

### \*1,000 - \$2,000/Household Fiber to the feeder

 Virtual Video-on-Demand, With Jukebox And 200 To 500 Channels Shared by a Neighborhood of 500 to 2,000 Homes

Digital Converter

- \* 1 Mb/S Compressed Channel
- \* 100-500 Kb/S Response



Source: Link Resources, IDC, EIA, A.C. Nielsen, Veronis Suhler & Assoc., Mckinsey analysis

# PC Feature/Functionality Expanding

Data/On-line Communications

Multimedia







Groupware

Video & Teleconferencing

### Life Style Computing

### Living Room - Large Screen

Sound System

#### Kitchen

- Flat Screen
- Video Conferencing
- Integrated

Telephone/ Messaging

- Touch Input
- Links for Electronic
   Commerce

#### Study -

- Reference
- Home Finances
- Home Office

#### Kid's Room - 1

- om Multimedia
- Edutainment Peripherals

### Home Mobile - Wireless Connections

- Voice Recognition
- How-to Applications
- Gardening
- Building a Deck

## Applications: Health Care

- Improves the Patient/Clinician Relationship
- Patient Better Informed
- Extends Quality of Service

Allowing Industry to Handle Change and Cost Pressures

- \* Applications:
- On-Line Question Response
- Patient Journals
- Clinician Journals
- Electronic Medical Record
- Telemedicine

## Applications: Business

- \* Key to Competitive Advantage
- **Dramatically Reduces Intermediation** \*
- Allows Rapid Formation and Disintegration of Teams \*
- \* Flattens the Hierarchy
- Telecommuting Has the Potential to Allow Better Balance Between Business and Family Life
- Rewards High Quality, Low Cost Producers

## Applications: Government

Reduces Cost of Dispensing and Administering Services

\*

Provides Access to Valuable Information the **Government Collects** \*

Allows More Direct Involvement and Input by the Electorate

\*

## Applications: Education

- Enables New and Exciting Models of Education \*
- Enables Life Long Learning
- Classroom Without Walls
- Access to Interest Groups or Experts
- Enriches Both the Teacher's and the Student's Experience
- Teacher As Facilitator

## Applications: Entertainment

- \* Future
- Networked Games
- Full Motion Feeds of Customized Video
- Virtual Reality
- \* Today/Tomorrow
- **Networked Narrow-Band Communication**
- Messaging
- Chat Lines
- Video Conferencing
- Interactive Games
- CD-ROM Entertainment

### Final Thoughts

- \* Let the Market Lead
- Critical to Assuring Appropriate Development of the **Technology**
- Market Approach Will Allow Growth Based on Real Needs of Today and Innovation for Tomorrow
- Don't Underestimate the Population
- \* The Right Approach to the Future Will Bring **Great Rewards**